

1991 OKLAHOMA ANNUAL SUMMARY

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1991 OKLAHOMA SUMMARY

Intense rains near the end of 1991 offset a dry beginning to the year. The statewide-average annual precipitation total of 39.18 inches was the 21st wettest one-year total on record, 4.86 inches above the 1961-1990 normal. Precipitation was not spread uniformly across the state, as portions of northwest Oklahoma retained a precipitation deficit for the year. Temperatures were also above normal, averaging 61.2 degrees. The year ended tied as the 27th warmest, 0.9 degrees above normal.

The year began warm and dry. The combined average temperature during the months of January and February of 41.2 degrees was 2.5 degrees above normal. This countered a cold December 1990, leaving the winter 1990-1991 mean temperature 0.5 degree above normal. Precipitation during the first two months of the year tallied a meager 1.73 inches, which is 1.26 inches below normal. Overall, the winter was 1.07 inches below normal.

Western Oklahoma was particularly hard-hit by the dry conditions. During February, the western third of the state averaged only 0.01 inch of precipitation and the state as a whole ranked as the fourth driest. An ice storm in early January, a surprise six inch snowfall at Miami on February 24 and a 12 inch snowfall across the Panhandle on March 1 were the only major winter storms of the season.

The warm, dry weather continued into the spring, making the season the 6th warmest spring on record. The average temperature of 62.7 degrees was 2.7 degrees above normal. Spring rains helped alleviate some of the dry conditions left from the winter, but the season precipitation was still 0.33 inches below normal, totaling 10.43 inches over the three-month period.

High winds during early and mid-March spread the flames of numerous wildfires, including a devastating fire in northeast Oklahoma City. A statewide ban on outdoor burning was declared on March 12. Skies were also darkened on several occasions by dust kicked airborne by strong winds. The dry conditions were replaced in late March by the most active severe storm season since 1983. Fifty-eight tornadoes were reported in Oklahoma during the spring, compared to a 1950-1990 average of 32. There were also numerous reports of hail up to the size of softballs and winds in excess of 80 miles per hour.

Heavy rains persisted into June, pushing the summer precipitation total 0.23 inch above normal. The summer total was 9.62 inches. Parched conditions eased across northwest Oklahoma, which had recorded seven consecutive months of below-normal precipitation, but drought concerns were raised in northeast Oklahoma. Temperatures during the summer averaged near-normal for June and July, and slightly below normal in August. The mean summer temperature of 80.2 degrees was 0.2 degree above normal.

Daily rainfall totals in excess of five inches during June caused flooding across large parts of southwest and south central Oklahoma. During a 3-day period, Kingston and Madill each reported over ten inches of rain. The rains did not end until late in the month, when a ridge of high pressure cleared the skies, concluding a streak of 82 consecutive days with precipitation recorded somewhere in the state. Summertime temperatures pushed well above 100 degrees during mid-July and early August, but occasional cold fronts continued to traverse the state bringing periods of welcome relief from the heat. Despite relatively cool temperatures, high humidity and little wind made late August bothersome. Stagnant air also contributed to high pollution levels, prompting an ozone alert in Tulsa late in the month.

Each of the autumn months was marked by significantly above-normal precipitation. The autumn total of 12.61 inches was 3.18 inches above normal, making 1991 the 10th wettest autumn on record. The autumn average temperature of 59.6 degrees was 2.0 degrees below normal, the 7th coolest autumn of the past 100 years, as mild weather in September and October was replaced by extreme cold in November.

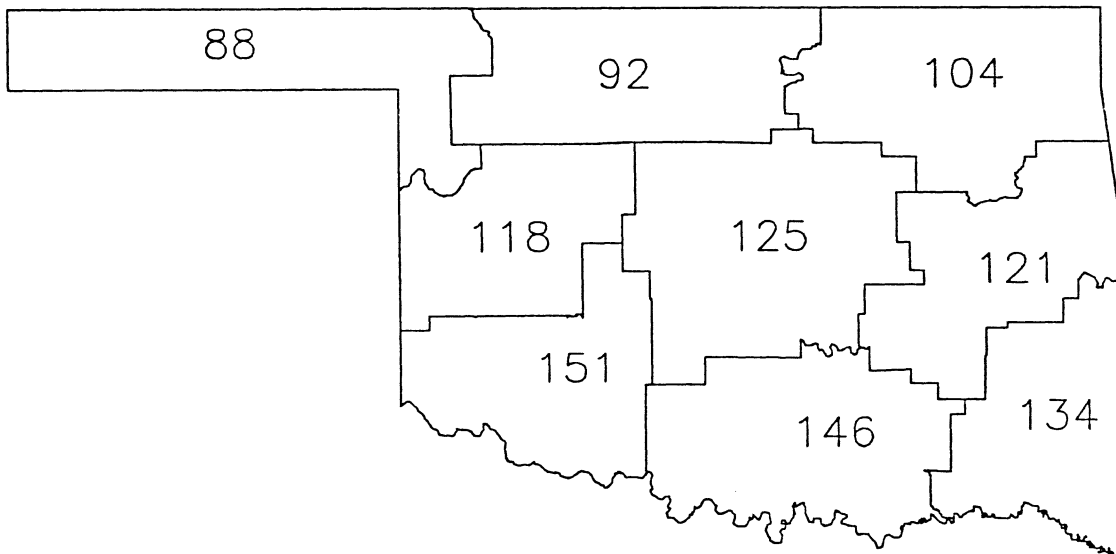
Cloud cover and cold fronts kept the state cool during much of September. Dry conditions late in September and early October allowed air to warm rapidly during the day, keeping afternoon temperatures mild throughout most of October. Aside from an early frost on the 4th, October was characterized by well above

normal temperatures. Daily maximum temperatures climbed as high as 99 degrees as late as October 23rd. A strong cold air mass hit the state on the 28th, abruptly terminating the mild weather and devastating fall crops and foliage. Temperatures in early November plunged below zero while daily maximum temperatures barely rose into double-digits. Ice and snow covered many sections of the state, with snowdrifts of three feet reported in the Panhandle. Although the extreme cold gave way to enjoyable conditions during mid-November, another bout of ice and snow hit the state on Thanksgiving weekend.

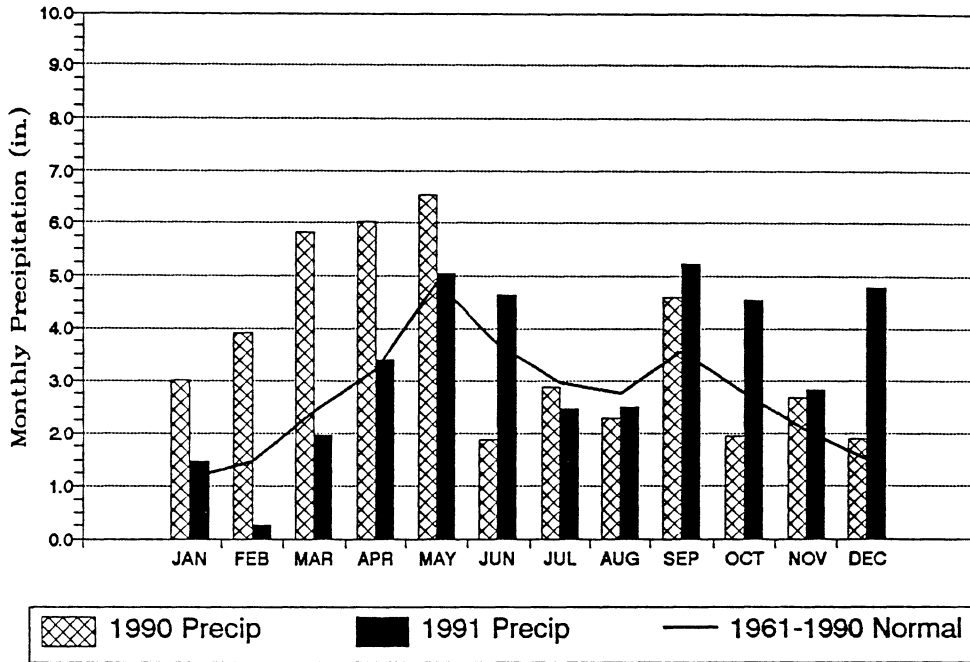
Despite signs of an early winter, temperatures moderated during December. Warm, humid air enveloped the state most of the month, making it the 18th warmest December on record. The 43.5 degree average temperature was 2.8 degrees above normal. Moist air also resulted in abundant precipitation. An average of 4.79 inches of precipitation fell across the state, making the month the third wettest December on record, 3.28 inches above normal. The abundant moisture produced thick clouds which enshrouded much of the state at year's end.

Mark A. Shafer

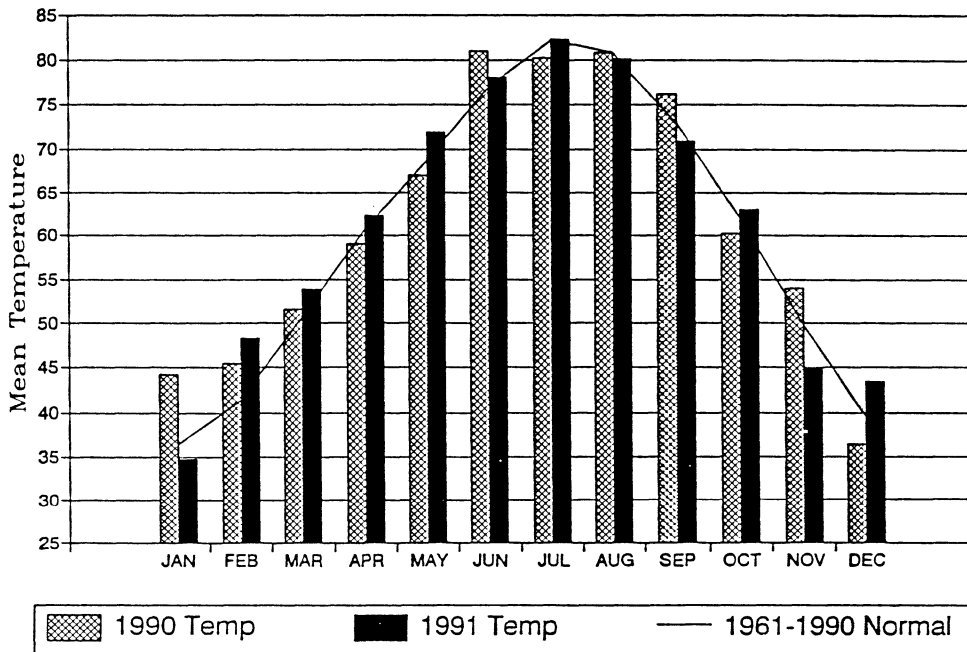
1991 ANNUAL CLIMATE DIVISION PERCENT OF
NORMAL PRECIPITATION



1990 and 1991 Monthly Precipitation Statewide Average for Oklahoma



1990 and 1991 Monthly Temperatures Statewide Average for Oklahoma



STORM SUMMARY REPORT

STATE OKLAHOMA MONTH _____ YEAR 1991

TYPE OF STORM	NUMBER	DAYS	DEATHS	INJURIES	DAMAGE*	
					PROPERTY	CROPS
TORNADOES	68	17	2	71	6.0 - 60.5 Million Dollars	50 - 500 Thousand Dollars
HAIL	 	 	0	0	.50 - 5.0 Million Dollars	No Estimate
THUNDERSTORM WINDS	 	 	0	3	1.7 - 17.5 Million Dollars	No Estimate
HIGH WINDS	 	 	0	0	1.0 - 10.0 Thousand Dollars	No Estimate
LIGHTNING	 	 	0	1	.50 - 8.0 Million Dollars	No Estimate
FLASH FLOODS	28	 	2	4	10.5 - 100.0 Thousand Dollars	5.0 - 50.5 Thousand Dollars
FLOODS	1	 	0	0	No Estimate	No Estimate
HEAVY SNOWSTORMS AND BLIZZARDS	 	 	0	0	No Estimate	No Estimate
ICE STORMS #	 	 	0	0	No Estimate	No Estimate
HURRICANES & TROPICAL STORMS	 	 	0	0	No Estimate	No Estimate
ALL OTHERS ^{Heat}	3	3	2	42	No Estimate	No Estimate
^{Winter Storm (Ice)}	1	2	1	0	No Estimate	No Estimate

* Total damage for month, by categories.
Freezing drizzle and freezing rain, commonly known as glaze.

DESTRUCTIVE TORNADOES RETURN TO OKLAHOMA IN 1991

After several relatively docile years, 1991 saw an abrupt increase in the number of tornadoes in Oklahoma. Sixty-eight tornadoes were reported in the state during the past year. This was in contrast to fewer than 30 tornadoes reported each of the four years prior to 1991, and seven consecutive years below the 1950-1990 average of 50. Three tornadoes, all of which occurred on April 26, caused widespread damage and the only deaths attributable to the spring storms.

On March 21, the first day of spring, eleven tornadoes ripped across portions of southeast Oklahoma. The strongest of these hit Ada, causing two injuries and extensive damage. Another strong tornado, up to 3/4 of a mile wide, cut an intermittent 19-mile path across Atoka County, from near Caney to Lane. Five children were injured when the tornado hit their mobile home. The tornado also derailed 31 cars of a freight train.

More severe weather struck Oklahoma less than a week later. During the evening of March 26 a thunderstorm generated four tornadoes in northwest Oklahoma, the strongest traveling 44 miles across Grant and Kay Counties before moving into Kansas. No injuries were reported in Oklahoma from the storms.

The same area was hit again on April 12, when ten tornadoes touched down. The most powerful of the tornadoes were in Garfield and Grant Counties. Two of these were on the ground for over thirty minutes, but since the storms were moving slowly people in the path had adequate warning and time to seek shelter. The two tornadoes caused over two million dollars in damages, but there were no reports of injuries associated with them.

The most destructive storms of the year hit north central and northeastern Oklahoma on April 26. The threat of severe weather was demonstrated early that morning, when a tornado struck Tonkawa at 6:45 a.m. One death was indirectly associated with the tornado when a man was struck by a detached tree limb as he was clearing away debris.

Thunderstorms developed again over the region that afternoon, eventually producing three devastating tornadoes. One thunderstorm, which tracked across Garfield, Noble, Osage and Washington Counties, produced three large tornadoes. The most substantial of these remained on the ground for 85 minutes, weaving a path of destruction nearly a mile wide and 66 miles in length. Wind speeds of 286 miles per hour were measured in the tornado, making it one of the strongest ever recorded; however the tornado did not strike any towns directly so damage was not as severe as may have been expected from such winds. The thunderstorm spawned another tornado near Copan, killing a woman when the tornado flipped her car into a nearby field. Nine other people were injured in Copan.

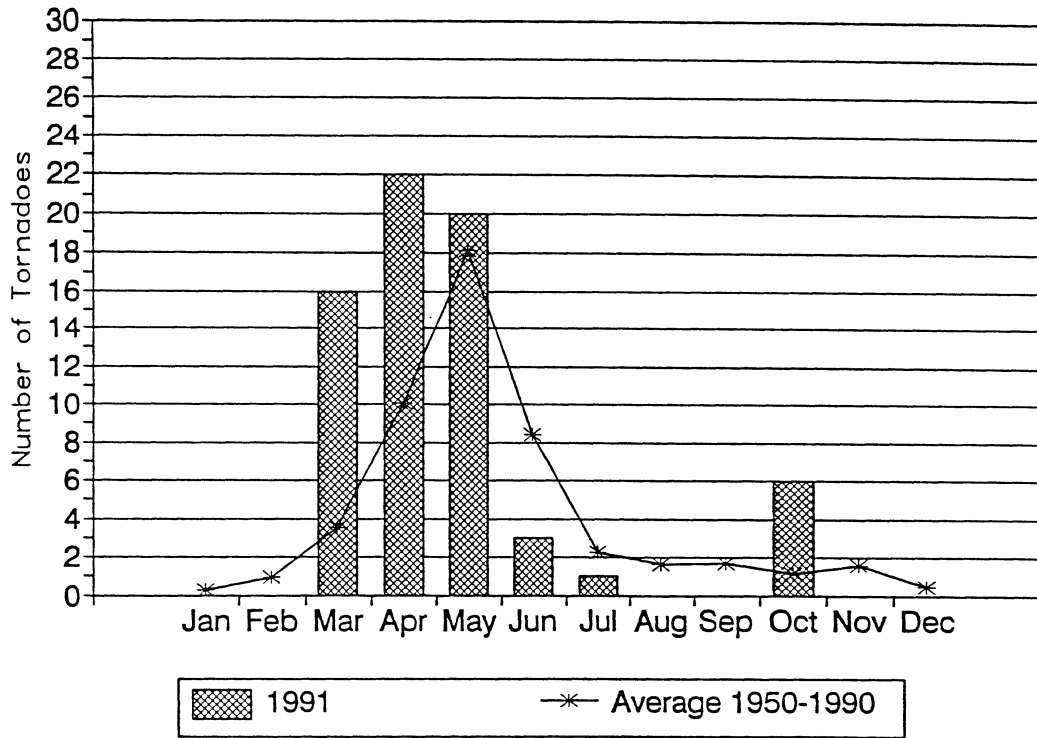
The most destructive tornadoes came from a thunderstorm which developed later that afternoon over Payne County. The first of two particularly destructive tornadoes produced by this storm traveled 32 miles, devastating an area a mile wide. The tornado remained on the ground for 77 minutes, narrowly missing Terrelton, but directly striking Westport and Skiatook. One person was killed when the tornado swept his car off the Cimarron Turnpike and 24 others were injured, mostly in the Skiatook area. Airplanes were tossed into trees in Westport, where 54 homes were destroyed, and an additional 32 homes were destroyed in Skiatook. Damage estimates totalled \$2.9 million. The second tornado was much shorter-lived but even more devastating. In an 8-minute period, a 3/4 mile-wide tornado ripped through Oologah, felling high-tension power lines and demolishing 60 homes and the Oologah school complex. Damage from this tornado alone has been estimated to be \$14.9 million.

Twenty more tornadoes were reported in May, eleven of these on the 15th and 16th. Only one of the tornadoes on the 15th produced significant damage. Three people were injured by a 1/2 mile-wide tornado when it destroyed a trailer home south of Laverne. Thunderstorms developed in eastern Oklahoma on the 16th, spawning several tornadoes near Tulsa, but again damage was minimal and no injuries were reported.

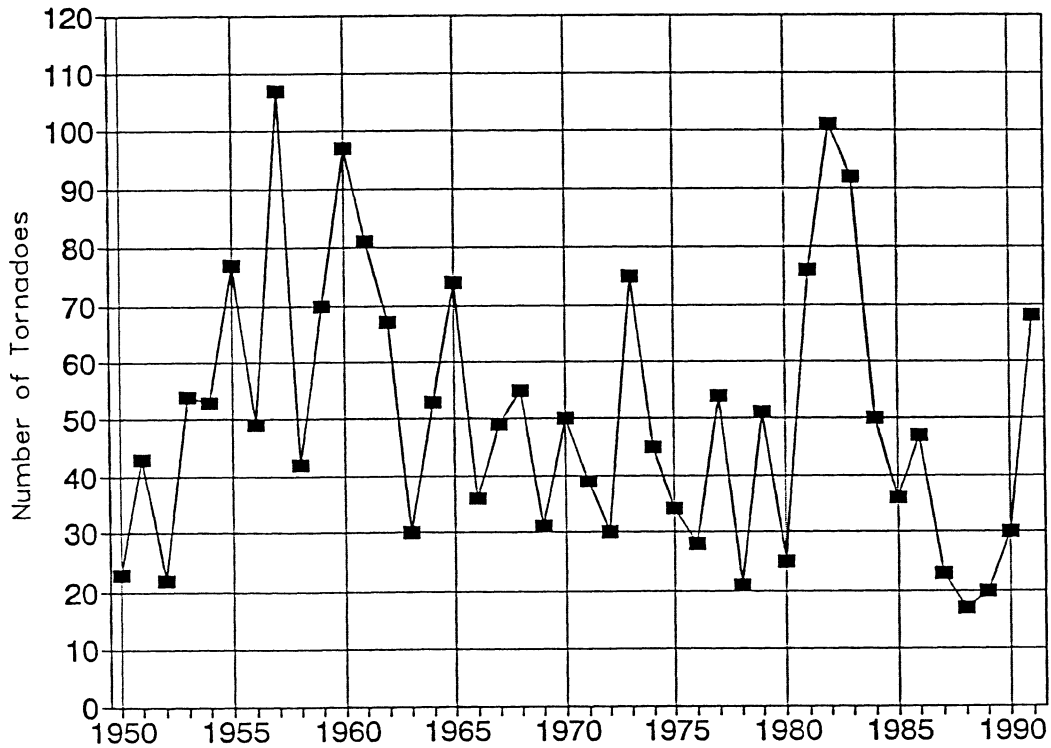
The last major tornado of the spring occurred near Woodward on May 26. The tornado tracked nearly 10 miles on the ground over a 20-minute period. Damage from the tornado was minor, but frequent lightning and very large hail associated with the storm caused additional damage.

Tornadoes of the magnitude seen in 1991 have in the past resulted in a much greater loss of life. Spotters, new technology for observing storms and rapid dissemination of information acted together to reduce the threat from tornadoes. Adequate warnings and safety precautions saved countless lives during this past spring. Both fatalities and most injuries occurred in vehicles or mobile homes, highlighting the need to keep informed of rapid weather changes and to seek proper shelter when weather becomes threatening.

Tornadoes in Oklahoma by Month in 1991



Number of Tornadoes in Oklahoma Total each Year, 1950-1991



TORNADO OCCURRENCES IN OKLAHOMA DURING 1991
 Listing is by event. See notes on next page.

<u>DATE</u>	<u>INT</u>	<u>TIME</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>DAMAGE</u>	<u>COUNTY</u>
3-21	F0	1430	0.25	30	4	Stephens
3-21	F3	1625-1642	11	350	6	Pontotoc
3-21	F1	1630-1637	5	175	5	Pontotoc
3-21	F1	1630	1	100	4	Johnston
3-21	F2	1710-1740	19	1400	5	Atoka
3-21	F1	1730	2	100	4	Carter
3-21	F1	1800	1.5	30	4	Pittsburg
3-21	F2	1802	10	150	5	Bryan
3-21	F0	1814	*	20	-	Johnston
3-21	F1	1925	2	50	-	Leflore
3-21	F0	1952	3	100	-	Bryan
3-26	F0	1825	*	20	-	Dewey
3-26	F2	1945-1957	9	300	5	Alfalfa
3-26	F3	2005-2113	44	500	6	Grant, Kay
3-26	F0	2112	*	20	-	Kay
3-26	F0	2343	*	20	-	Canadian
4-2	F1	1720	0.25	30	0	Woods
4-2	F0	1729	*	30	0	Stephens
4-2	F2	1845-1855	5	100	4	Woods
4-12	F2	1522-1551	9	300	4	Major
4-12	F0	1552	*	20	-	Garfield
4-12	F0	1605	1	30	0	Canadian
4-12	F2	1620-1640	6	50	4	Garfield
4-12	F0	1633-1639	2.5	30	0	Garfield
4-12	F3	1637-1716	9	400-800	5	Garfield, Grant
4-12	F0	1645-1648	1	30	0	Kingfisher
4-12	F3	1721-1751	9.5	500	6	Grant
4-12	F0	1830	*	20	0	Kingfisher
4-12	F1	1913-1917	2	40	0	Kingfisher
4-26	F2	0645	1	100	5	Kay
4-26	F3	1800-1809	6	350	5	Garfield
4-26	F0	1815	*	20	0	Garfield
4-26	F4	1830-1955	66	500-1500	6	Garfield, Noble, Osage
4-26	F2	1938-1947	6.5	100-800	5	Payne
4-26	F4	2010-2127	32	400-1700	6	Pawnee, Osage
4-26	F1	2027	0.25	10	-	Osage
4-26	F2	2105-2120	6	100	5	Washington
4-26	F4	2145-2153	4	1300	7	Rogers
4-26	F1	2210-2214	2	30	5	Rogers
5-2	F1	2000	0.25	30	-	McClain
5-2	F1	2020	0.50	30	-	Cleveland
5-4	F0	1658	0.25	20	-	Garvin
5-11	F0	2002-2015	0.50	70	-	Cimmaron

<u>DATE</u>	<u>INT</u>	<u>TIME</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>DAMAGE</u>	<u>COUNTY</u>
5-15	F3	2035-2111	11.5	200-900	5	Harper
5-15	F0	2130	0.50	50	-	Beckham
5-15	F0	2323	0.25	30	-	Dewey
5-15	F0	2330	0.50	50	-	Beckham
5-16	F0	0016	0.25	30	-	Major
5-16	F1	1809-1825	7	60	5	Okmulgee
5-16	F0	1818	0.25	30	-	Tulsa
5-16	F1	1820	0.50	50	4	Okmulgee
5-16	F0	2008	0.25	30	0	Tulsa
5-16	F2	2036-2040	4	100	5	Rogers
5-16	F0	2125	0.25	25	-	Rogers
5-23	F0	1820	0.1	70	-	Texas
5-26	F1	1853	2	75	4	Woodward
5-26	F3	1858-1918	9.5	800-1000	5	Woodward
5-26	F1	1859	1	50	3	Woodward
5-26	F0	2101	*	30	-	Major
6-5	F0	1307	0.25	50	-	Atoka
6-5	F0	1332-1340	4	100	-	Atoka, Choctaw
6-18	F0	1840-1852	0.5	30	-	Beaver
7-12	F0	2002	0.5	100	0	Kingfisher
10-24	F0	1316	*	20	-	Haskell
10-24	F0	1612	0.25	40	3	Tulsa
10-24	F0	1919	1	100	4	McIntosh
10-28	F1	0415	10.3	400-800	5	Adair
10-28	F0	0445	1.5	100	3	Delaware
10-28	F1	0510	2	400	5	Delaware

NOTES:

INTENSITY is based on wind speeds and observed damage:

- 0 40-72 m.p.h light damage
- 1 73-112 roof damage, mobile homes overturned
- 2 113-157 roofs torn off, trees snapped
- 3 158-206 some walls collapse, trees uprooted
- 4 207-260 houses leveled, cars thrown
- 5 261-318 houses disintegrate, trees debarked

TIME is local time (daylight time April 7-Oct 26)

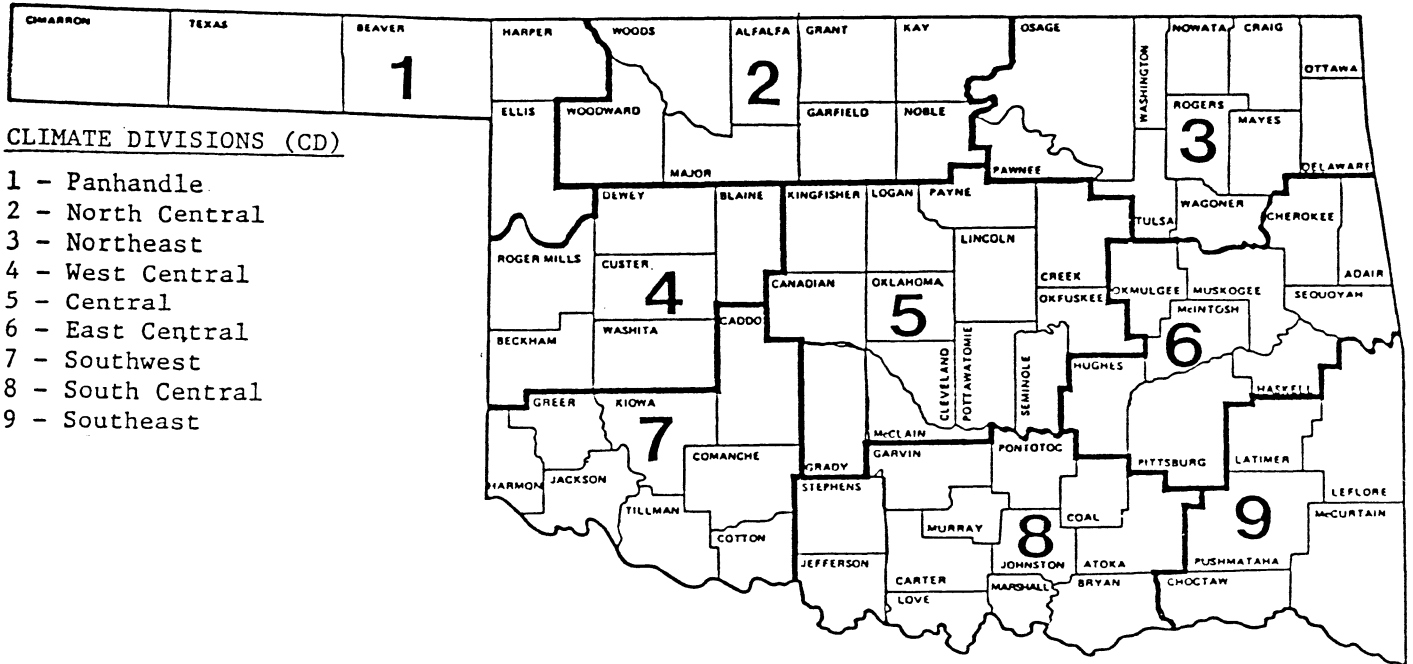
LENGTH is the continuous tornado track measured in miles

WIDTH is measured in yards (1760 yards = 1 mile)

DAMAGE is a monetary estimate:

- 1 Less than \$50
- 2 \$50 - \$500
- 3 \$500 - \$5,000
- 4 \$5,000 - \$50,000
- 5 \$50,000 - \$500,000
- 6 \$500,000 - \$5 million
- 7 \$5 million - \$50 million
- 8 \$50 million - \$500 million
- 9 \$500 million - \$5 billion

O K L A H O M A



CLIMATE DIVISIONS (CD)

- 1 - Panhandle
- 2 - North Central
- 3 - Northeast
- 4 - West Central
- 5 - Central
- 6 - East Central
- 7 - Southwest
- 8 - South Central
- 9 - Southeast

1991 STATION SUMMARY

The following tables contain summaries of the cooperative data received at the OCS during 1990. They represent a preliminary description of climate conditions across the state and have been initially quality controlled for accuracy. Even so, they may not always agree precisely with those final values published by the National Climatic Data Center. Asterisks indicate data are missing within the month or that 30-year "normals" were unavailable. A station is included in the table only if six or more months of complete data are available. Annual averages and totals are computed only if all twelve monthly values are present. Climate division averages and totals are based on complete monthly records.

1991 TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

CLIMATE DIVISION 1 (NORTHWEST)

CD	ID	STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
			PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP
1	332	ARNETT	0.31	-0.12	0.00	-0.67	0.82	-0.48	0.28	-1.50	2.53	-1.61	2.47	-0.82	2.14	0.05	3.08	0.67	3.34	1.43	1.41	-0.40	1.87	0.78	2.07	1.44	20.35	-1.23
1	593	BEAVER	0.40	0.02	0.00	-0.58	1.10	-0.07	0.19	-1.06	2.43	-0.83	1.15	-1.69	3.60	0.73	2.00	-0.81	0.82	-0.70	0.85	-0.37	1.62	0.73	1.78	1.33	15.95	-3.30
1	908	BOISE CITY	0.68	0.32	0.00	-0.49	0.66	-0.16	0.57	-0.78	1.79	-0.64	2.37	0.38	*	*	3.42	1.04	1.80	0.24	1.51	0.68	1.48	0.85	1.23	0.83	*	*
1	1243	BUFFALO	0.30	-0.23	0.00	-0.92	1.40	-0.31	1.02	-1.05	1.99	-2.40	3.30	-0.30	1.40	-1.92	4.04	0.70	1.91	-0.89	0.55	-1.40	1.15	-0.18	2.93	2.24	19.99	-6.66
1	3070	FARGO	0.30	-0.16	0.00	-0.85	1.00	-0.29	0.52	-1.31	2.52	-1.44	2.30	-0.91	0.99	-1.20	1.13	-1.34	1.76	-0.06	1.18	-0.49	2.21	1.19	1.90	1.25	15.82	-5.61
1	3407	GAGE	0.24	-0.21	0.00	-0.82	0.87	-0.31	0.42	-1.43	1.95	-1.71	3.18	0.41	1.68	-0.43	1.78	-0.64	2.79	1.19	0.95	-0.64	2.15	1.31	2.29	1.65	18.31	-1.63
1	3489	GATE	0.37	*	*	*	1.81	*	0.16	*	*	*	*	*	2.29	*	5.58	*	0.92	*	1.73	*	2.31	*	2.33	*	*	*
1	3628	GOODWELL	0.32	0.07	0.00	-0.31	1.06	0.28	0.09	-1.01	3.91	1.04	3.75	1.45	0.98	-1.90	0.77	-1.60	1.17	-0.10	*	*	1.07	0.43	1.90	1.63	*	*
1	4298	HOOKER	0.15	-0.26	0.00	-0.46	1.30	0.07	0.20	-0.99	5.25	1.82	2.41	-0.54	2.57	-0.36	*	*	0.55	-1.07	1.01	-0.10	1.41	0.65	1.84	1.45	*	*
1	4766	KENTON	0.29	-0.01	0.01	-0.27	0.94	0.18	0.10	-1.19	1.25	-1.24	0.70	-1.12	2.82	-0.07	3.10	0.60	1.50	-0.01	*	*	*	*	*	*	*	*
1	5045	LAVERNE	0.23	-0.40	0.00	-0.88	1.25	-0.29	0.45	-1.08	2.05	-1.34	3.22	0.25	3.17	0.68	4.41	1.44	0.38	-1.63	1.40	-0.11	2.23	1.24	1.51	0.84	20.31	-1.28
1	6740	OPTIMA LAKE	0.30	*	0.00	*	0.95	*	0.14	*	6.03	*	3.25	*	2.18	*	0.92	*	*	*	1.13	*	1.41	*	2.53	*	*	*
1	7534	REGNIER	0.28	0.01	0.00	-0.27	0.94	0.26	0.06	-1.05	2.17	0.25	2.47	0.67	1.1	-1.49	2.94	1.03	1.60	0.19	0.47	-0.29	1.08	0.57	0.76	0.48	13.78	0.36

CLIMATE DIVISION 2 (NORTH CENTRAL)

CD	ID	STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL		
			PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	PCP	DEP	
2	193	ALVA	*	*	0.00	*	0.98	*	1.79	*	3.85	*	2.53	*	1.11	*	7.73	*	1.73	*	1.82	*	1.36	*	1.58	*	*	*	*
2	302	VANCE AFB	*	*	0.03	*	1.25	*	1.86	*	4.16	*	*	*	*	*	2.81	*	*	*	*	*	*	*	1.85	*	*	*	*
2	755	BILLINGS	0.53	-0.38	0.00	-1.22	1.51	-0.56	4.05	1.13	3.30	-1.30	5.05	0.94	2.87	-0.65	0.67	-2.23	2.02	-2.20	2.20	-0.27	3.11	1.22	3.76	2.54	29.07	-2.98	
2	818	BLACKWELL	0.39	*	0.11	*	1.20	*	8.59	*	3.29	*	3.73	*	1.84	*	2.18	*	1.21	*	1.44	*	3.30	*	3.92	*	31.21	*	
2	1075	BRAMAN	0.14	*	0.11	*	0.78	*	4.27	*	3.06	*	2.30	*	3.66	*	1.67	*	*	*	1.22	*	4.47	*	3.40	*	*	*	*
2	1620	CEDARDALE	*	*	*	*	*	*	*	*	*	*	*	*	1.62	*	3.74	*	3.55	*	1.62	*	2.41	*	2.31	*	*	*	*
2	1724	CHEROKEE	0.00	-0.69	0.00	-0.92	0.97	-0.96	1.41	-1.14	4.03	0.18	4.52	0.53	2.68	-0.08	2.74	0.16	1.66	-1.01	*	*	5.35	4.07	3.00	2.13	*	*	*
2	2912	ENID	0.03	-0.88	0.00	-1.16	1.28	-0.61	2.06	-0.72	2.83	-2.18	*	*	1.69	-1.49	2.28	-1.08	2.77	-0.44	0.57	-2.24	*	*	4.02	2.99	*	*	*
2	3304	FT SUPPLY DA	0.27	-0.23	*	*	0.93	-0.33	0.95	-0.64	3.65	-0.06	4.22	1.28	1.66	-0.53	1.18	-1.34	1.67	-0.30	1.13	-0.30	2.34	1.42	2.20	1.58	*	*	*
2	3358	FREEDOM	0.25	*	0.00	*	1.32	*	0.54	*	4.19	*	3.01	*	1.66	*	2.08	*	1.79	*	1.84	*	2.63	*	2.42	*	21.73	*	*
2	3909	HARDY	0.77	*	0.14	*	1.76	*	6.89	*	*	*	*	*	4.48	*	*	*	0.75	*	2.20	*	2.15	*	4.40	*	*	*	*
2	4019	HELENA	0.39	-0.32	0.15	-0.85	0.45	-1.47	2.26	-0.31	5.56	1.22	4.86	0.91	2.50	-0.58	2.91	0.30	1.46	-1.41	2.04	-0.08	2.94	1.39	2.75	1.81	28.27	0.61	
2	4573	JEFFERSON	0.26	-0.44	0.11	-0.86	0.70	-1.23	3.06	0.29	3.38	-0.54	3.19	-0.79	2.31	-1.61	1.83	-1.42	1.27	-1.86	1.76	-0.79	3.37	1.45	3.15	2.12	24.40	-5.68	
2	5013	LAMONT	0.28	*	0.08	*	1.16	*	*	*	3.28	*	2.35	*	*	*	0.75	*	2.91	*	2.11	*	3.20	*	3.31	*	*	*	*
2	5768	MEDFORD	0.34	*	0.05	*	0.94	*	4.76	*	3.16	*	2.05	*	1.50	*	1.25	*	0.77	*	1.60	*	3.43	*	3.63	*	23.49	*	*
2	6065	MORRISON	0.38	*	0.00	*	0.84	*	*	*	5.69	*	5.06	*	0.23	*	1.29	*	*	*	3.75	*	2.21	*	4.53	*	*	*	*
2	6139	MUTUAL	0.25	-0.25	0.01	-0.92	1.25	-0.33	0.57	-1.88	*	*	2.86	-0.31	0.99	-1.57	2.39	0.19	4.73	2.25	1.66	0.14	2.43	1.28	2.78	2.12	*	*	*
2	6278	NEWKIRK	0.35	-0.51	0.05	-1.05	0.43	-1.55	7.67	4.72	4.83	0.11	5.94	1.35	2.92	-0.63	*	*	0.90	-2.64	1.65	-1.12	1.12	-0.82	2.57	1.35	*	*	*
2	6751	ORIENTA	0.00	*	0.00	*	1.07	*	2.12	*	4.41	*	2.51	*	2.18	*	5.43	*	3.04	*	0.60	*	2.54	*	2.61	*	26.51	*	*
2	7012	PERRY	0.65	-0.22	0.15	-1.17	1.29	-1.07	2.51	-0.19	*	*	3.22	-0.91	3.91	0.38	1.51	-1.82	*	*	3.28	0.65	2.93	1.13	4.58	3.38	*	*	*
2	7201	PONCA CITY	0.61	-0.30	0.13	-1.09	1.60	-0.50	*	*	5.84	1.35	5.76	1.59	2.44	-1.66	1.27	-2.09	2.12	-1.72	2.17	-0.43	3.86	1.81	3.46	2.19	*	*	*
2	7505	RED ROCK	0.54	-0.33	0.00	-1.39	1.01	-1.24	3.07	0.28	5.60	0.97	5.21	1.18	3.31	-0.41	1.96	-0.98	2.08	-1.64	2.60	0.13	3.89	2.17	3.68	2.39	32.95	1.13	*
2	9404	WAYNOKA	0.28	-0.32	0.00	-0.98	1.00	-0.63	0.59	-1.59	6.96	2.52	3.53	-0.22	1.32	-1.23	4.90	2.20	1.79	-0.71	1.71	0.00	1.96	0.68	3.13	2.36	27.17	2.08	*
2	9760	WOODWARD	0.33	*	0.00	*	1.11	*	*	*	5.02	*	1.85	*	0.97	*	0.97	*	0.82	*	1.46	*	2.22	*	*	*	*	*	*

